

309. A method for collecting and transmitting chemical information comprising:

*B1*  
detecting one or more analytes with an analyte detection device, wherein the analyte detection device includes communication hardware configured to transmit chemical information;

transmitting the chemical information over a computer network to a client computer system coupled to the computer network, wherein the client computer system is configured to receive the chemical information over the computer network; and

controlling the operation of the analyte detection device from the client computer system, wherein controlling the operation of the analyte detection device comprises sending one or more control signals to the analyte detection device from the client computer system via the computer network.

343. A system for collecting and transmitting chemical information, the system comprising:

*B2*  
an analyte detection device, operable to detect one or more analytes and produce output signifying the detection of one or more analytes in the form of chemical information, and wherein the analyte detection device comprises communication hardware and software executable to transmit the chemical information over a computer network to other computer systems;

a client computer system connected to the computer network, wherein the client computer system comprises a software program executable to receive the chemical information over the computer network, and wherein the client computer system is configured to produce one or more control signals, wherein the one or more control signals are sent from the client computer system via the computer network to the analyte detection device, and wherein the one or more control signals are configured to control the operation of the analyte detection device from the client computer system.

Please add the following claims:

416. (new) The method of claim 309, further comprising sending the one or more control signals to an electronic controller coupled to the analyte detection device from the client computer via the computer network.

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417. (new) The method of claim 309, wherein the chemical information comprises Logical Observation Identifiers Name and Code format.

418. (new) The method of claim 309, wherein the client computer system comprises analysis software, wherein the analysis software is configured to convert the chemical information into chemical information representative of the analytes in the analyzed fluid system.

419. The method of claim 309, wherein the analyte detection device is configured to determine the identity of the analytes, and wherein the chemical information is representative of the analytes in the analyzed fluid system.

420. (new) The system of claim 343, further comprising an electronic controller, wherein the electronic controller is coupled to the analyte detection device, and wherein the electronic controller is configured to receive the one or more control signals from the client computer via the computer network.

421. (new) The system of claim 343, wherein the client computer system is further configured to transmit chemical information over the computer network to one or more additional client computer systems.

422. (new) The system of claim 343, further comprising a local computer system, wherein the local computer system is configured to upload the chemical information directly from the analyte detection device, and wherein the local computer system is further configured to transmit the chemical information over a computer network to the client computer system.

423. (new) The system of claim 343, wherein chemical information is transmitted to a server via the computer network, and wherein the chemical information is transmitted from the server over the computer network to the client computer system.

424. (new) The system of claim 343, further comprising a server, wherein the analyte detection device transmits the chemical information to the server, and wherein the server is configured to store the chemical information, and wherein the server is further configured to transmit the chemical information over the computer network to the client computer system.

425. (new) The system of claim 343, wherein the client computer system further comprises a server, wherein the chemical information is transmitted from the analyte detection device to a server via the computer network, and wherein the server is a web server, and wherein the server is configured to be operable to maintain a web site, and wherein the chemical information is transmitted from the server over the computer network to the client computer system.

426. (new) The system of claim 343, further comprising a server, wherein the analyte detection device transmits the chemical information to the server, and wherein the server is configured to transmit the chemical information to the client computer system, and wherein the server comprises:

a web server, and

wherein the server is operable to maintain a web site and wherein the website permits a client computer system to download the chemical information from the web server by using a web browser.

427. (new) The system of claim 343, The system of claim 343, further comprising:  
a server, wherein the analyte detection device transmits the chemical information to the server, and wherein the server comprises a web server, operable to maintain a web site; and  
a web site, wherein the web site is configured to display the chemical information, and wherein the web site is maintained by the web server; and

wherein the server is configured to transmit the chemical information over the computer network to the client computer.

428. (new) The system of claim 343, wherein the chemical information comprises data representative of an optical signal detected by the analyte detection device.

429. (new) The system of claim 343, wherein the chemical information comprises data representative of the identity of an analyte detected by the analyte detection device.

430. (new) The system of claim 343, wherein the computer network comprises an intranet.

431. (new) The system of claim 343, wherein the computer network comprises an extranet.

432. (new) The system of claim 343, wherein the computer network comprises a local area network.

433. (new) The system of claim 343, further comprising a local computer, wherein the local computer is coupled to the analyte detection device, and wherein the local computer is configured to receive the chemical information from the analyte detection device and transmit the chemical information to the client computer system via the computer network.

434. (new) The system of claim 343, wherein the chemical information comprises Logical Observation Identifiers Name and Code format.

435. (new) The system of claim 343, wherein the client computer system further comprises analysis software, wherein the analysis software is configured to convert the chemical information into chemical information representative of the analytes in the analyzed fluid system.